

I. EPA UAM-V Model Runs

A. Description of Model Runs

1. "State-by-State" Zero-Out Runs using UAM-V for 4 OTAG episodes and 2007 SIP Call Base Case emissions **Docket Number: V-L-02**

- zero-out all manmade emissions for the following States, individually:
 - AL, GA, IN, IL, KY, MA, MI, MO, NC, OH, SC, TN, VA, WI, WV
- zero-out all manmade emissions for the following groups of States:
 - AL+GA+NC+SC+TN
 - IL+WI

2. UAM-V runs for 4 OTAG episodes for various utility emissions limits and non-utility control levels, as indicated in the following table **Docket Number V-L-01**

Scenario	Utility	Non-Utility Point Source
0.25	0.25 lb/mmBTU for EGUs >25MWe. Interstate trading modeled using IPM	60% reduction from uncontrolled levels for large sources
0.20	0.20 lb/mmBTU for EGUs >25MWe. Interstate trading modeled using IPM.	70% reduction from uncontrolled levels for large sources, RACT for medium sources
0.15t	0.15 lb/mmBTU for EGUs >25MWe. Interstate trading modeled using IPM.	70% reduction from uncontrolled levels for large sources, RACT for medium sources
0.12	0.12 lb/mmBTU for EGUs >25MWe. Interstate trading modeled using IPM.	70% reduction from uncontrolled levels for large sources, RACT for medium sources
Reg-1*	0.20 lb/mmBTU in the Southeast and Midwest, 0.15 lb/mmBTU in the Northeast and adjacent States for EGUs >25MWe. Interstate trading within zones subject to the same limit modeled using IPM.	70% reduction from uncontrolled levels for large sources, RACT for medium sources

Reg-2*	0.20 lb/mmBTU in the Southeast, 0.15 lb/mmBTU in the Midwest and adjacent States and 0.12 lb/mmBTU in the Northeast for EGUs >25MWe. Interstate trading within zones subject to the same limit modeled using IPM.	70% reduction from uncontrolled levels for large sources, RACT for medium sources
0.15nt	0.15 lb/mmBTU for EGUs >25MWe. Intrastate trading only modeled using IPM	70% reduction from uncontrolled levels for large sources, RACT for medium sources

* For the regionality cases, the Southeast includes Alabama, Georgia, North Carolina South Carolina, and Tennessee; the Midwest includes Illinois, Indiana, Kentucky, Michigan, Missouri and Wisconsin; the Northeast includes Connecticut, Delaware, District of Columbia, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, and Rhode Island; the adjacent States include Ohio, Virginia and West Virginia.

3. UAM-V "Transport Runs" for 4 OTAG episodes **[information to be docketed shortly]**

- 3 scenarios designed to examine the "transport" benefits of the SIP Call

- Scenario 1: 0.15nt emissions in the Northeast SIP Call States with 2007 SIP Call Base Case emissions elsewhere

- Scenario 2: 0.15nt emissions in Georgia with 2007 SIP Call Base Case emissions elsewhere

- Scenario 3: 0.15nt emissions in Illinois, Indiana, and Wisconsin with 2007 SIP Call Base Case emissions elsewhere

4. UAM-V Utility/Non-Utility Zero-Out runs for 4 OTAG episodes using OTAG 2007Baselc emissions **[information to be docketed shortly]**

- zero-out utility and non-utility emissions in multi-state areas

- 19 multi-state zero-out runs performed

B. Specific information docketed for each of the UAM-V EPA model runs

1. Tabular summaries of the types listed below are provided for each of the following metrics:

-- Metrics:

- (1) number of predicted exceedences of the NAAQS
- (2) magnitude and frequency of "ppb" impacts
- (3) total "ppb" impacts
- (4) population-weighted total "ppb" impacts

-- Tabular Summaries:

- (1) 1-Hour Daily Max (and Hourly) for each 1-hr Nonattainment Area
- (2) 1-Hour Daily Max (and Hourly) for each State, based on counties designated nonattainment for the 1-hr NAAQS
- (3) 8-Hour Daily Max for each State, based on monitoring data showing counties violating the 8-hr NAAQS
- (4) 8-Hour Daily Max for each State, based on model predictions ≥ 85 ppb
- (5) 8-Hour Average 2nd High for each State, based on monitoring data showing counties violating the 8-hr NAAQS
- (6) 8-Hour Average 2nd High for each State, based on model predictions ≥ 85 ppb

2. Electronic versions of (a) the tabular summaries and (b) the "raw" model predictions in the form of daily "xymap" files will be available shortly via the following public download site:

ftp://www.epa.gov/pub/scram001/modelingcenter/model_output/

II. EPA CAMx Model Runs **Docket Number: V-L-03**

A. Description of Model Runs

1. Source Apportionment for various State and multi-State source areas using 2007 SIP Call Base Case emissions run for 4 OTAG episodes

B. Specific information docketed for the EPA CAMx Runs

1. Tabular summaries of the types listed below are provided for each of the following metrics:

-- Metrics:

- (1) magnitude and frequency of "ppb" impacts
- (2) percentage of total man made ozone in the "downwind" area contributed by the upwind area
- (3) highest daily average contribution ("ppb" and percent of "downwind" ozone)

-- Tabular Summaries of each metric are prepared for each of the following types of receptor areas:

- (1) 1-hour Nonattainment Areas
- (2) States, based on counties designated nonattainment for the 1-hr NAAQS

(3) States, based on monitoring data showing counties violating the 8-hr NAAQS

(4) States, based on model predictions ≥ 85 ppb

2. Electronic versions of (a) the tabular summaries and (b) "raw" source-receptor contributions in the form of "ranktrack" output files will be available shortly via the following public download site:

ftp://www.epa.gov/pub/scram001/modelingcenter/model_output/

III. EPA Analysis of 8-Hour Design Values versus Model Predictions **[information to be docketed shortly]**

- Analysis and data files comparing 8-hr Base Year model predictions to 8-hr ambient design values derived from 1994-1996 monitoring data